3450:632 Advanced PDEs
Course Syllabus, Spring 2012

Instructor: Truyen Nguyen
Office: Arts and Sciences Bldg., Room 266
Office Hours: M, F: 2:10PM - 3:00PM; Tu: 12:10PM - 1:00PM or by appointment
Phone: (330) 972-2569
Email: tnguyen@uakron.edu
Website: www.math.uakron.edu/~tnguyen
Class Room: Bus Admin 138
Meeting Times: TuTh 10:45AM-12:00PM

Textbook: Partial Differential Equations, by Lawrence Evans

Course Description: The course will focus in the study of four partial differential
equations: the Laplace equation, the heat equation, Hamilton-Jacobi equation and
the scalar conservation laws. Topics will also include the method of characteristics
for solving first-order equations and numerical methods for scalar conservation laws.

Homework: I will assign homework problems every other week. You will turn
these in and I will grade them. I strongly encourage people to collaborate on home-
work. However, each student must write up his or her own solutions.

Exams and Grades: There will be a Final Exam. Its time and location will be
announced. Your final score will be scaled to 100% and calculated according to the
following rule: homework will count for 75% of the final score, and the final exam
for 25%. I will assign letter grades using the standard cutoffs: 90 – 100% of the
total possible points is an A, 80 – 89% is a B, etc. Pluses and minuses will be added
at my discretion.

Late Homework Policy: I may occasionally accept late homework. However,
people who consistently hand in homework late will be penalized.
Withdrawals: February 26th is the last day to withdraw from the class.